

# INTERNATIONAL SEARCH REPORT

International Application No

/GB2004/003187

**A. CLASSIFICATION OF SUBJECT MATTER**  
**IPC 7** G02B6/35 G02B6/26

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

**IPC 7** G02B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>GB 2 309 608 A (SECR DEFENCE)            30 July 1997 (1997-07-30)</p> <p>page 9, line 19 – page 11, line 11;            figures 3-6            page 26, line 26 – page 27, line 1            page 28, line 1 – line 12</p> <p>-----</p> <p>US 2003/012509 A1 (LAM LEO ET AL)            16 January 2003 (2003-01-16)            abstract; figures 5,6            paragraphs '0009!, '0044! – '0046!,            '0051!, '0054!, '0056!, '0058!</p> <p>-----</p> <p>-/-</p>	1-5, 12-16, 18,19, 26,27,29
Y		1-29

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

\* Special categories of cited documents :

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- \*E\* earlier document but published on or after the International filing date
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\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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\*&\* document member of the same patent family

Date of the actual completion of the international search

15 September 2004

Date of mailing of the international search report

04/10/2004

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tional Application No  
'GB2004/003187

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>MIURA T ET AL: "NOVEL VARIABLE OPTICAL ATTENUATOR BASED ON THREE-DIMENSIONAL HOLLOW WAVEGUIDE"            JAPANESE JOURNAL OF APPLIED PHYSICS, PUBLICATION OFFICE JAPANESE JOURNAL OF APPLIED PHYSICS. TOKYO, JP, vol. 42, no. 6A, PART 1, June 2003 (2003-06), pages 3477-3478, XP001192037            ISSN: 0021-4922            page 3477, column 1; figure 1            page 3478, column 1, lines 13-16            -----</p>	1-29
Y	<p>US 2002/150378 A1 (HEFFNER BRIAN LEE ET AL) 17 October 2002 (2002-10-17)            paragraphs '0012!, '0013!, '0017!; figure 1            -----</p>	7,9,10
Y	<p>US 2002/150377 A1 (GELBART DANIEL) 17 October 2002 (2002-10-17)            paragraph '0025!; figure 1            -----</p>	11
Y	<p>LEE CHAU-HAN ET AL: "Planar lightwave circuit design for programmable complementary spectral keying encoder and decoder"            ELECTRONICS LETTERS, IEE STEVENAGE, GB, vol. 35, no. 21, 14 October 1999 (1999-10-14), pages 1813-1815, XP006012839            ISSN: 0013-5194            second column, paragraph entitled with "Design"            -----</p>	23
A	<p>US 6 501 869 B1 (ATHALE RAVINDRA) 31 December 2002 (2002-12-31)            abstract; figures 10-13,17            column 10, line 14 - line 29; figure 15            -----</p>	1-29
A	<p>US 2003/113067 A1 (KOH SEUNGUG ET AL) 19 June 2003 (2003-06-19)            paragraphs '0046!, '0065!, '0068!; figure 4            -----</p>	17,25,28

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

National Application No

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US 6501869	B1	31-12-2002		NONE		
US 2003113067	A1	19-06-2003		NONE		